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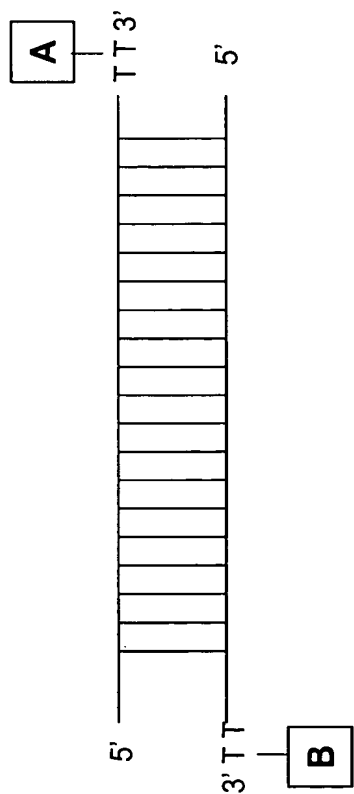


Fig. 1A

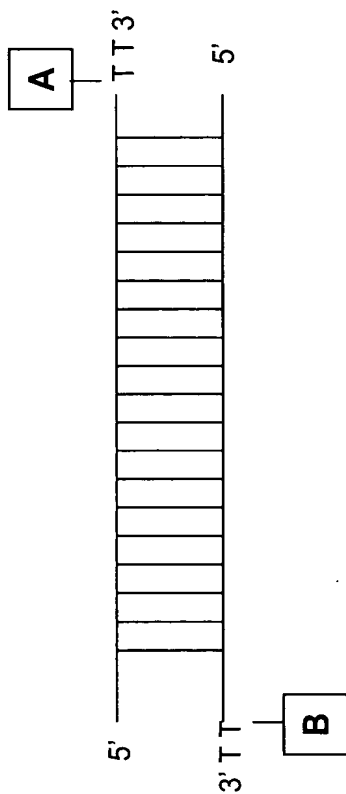


Fig. 1B

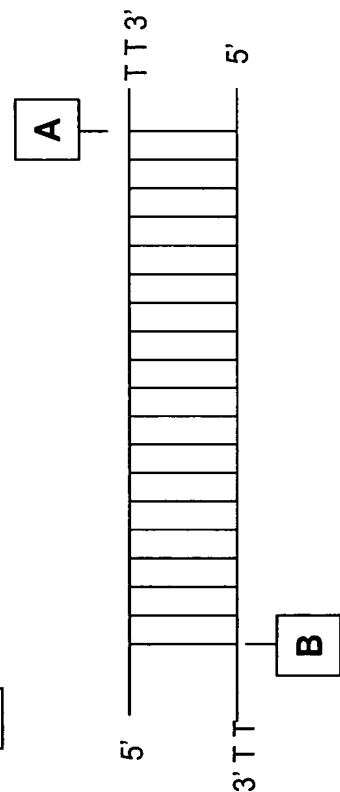


Fig. 1C

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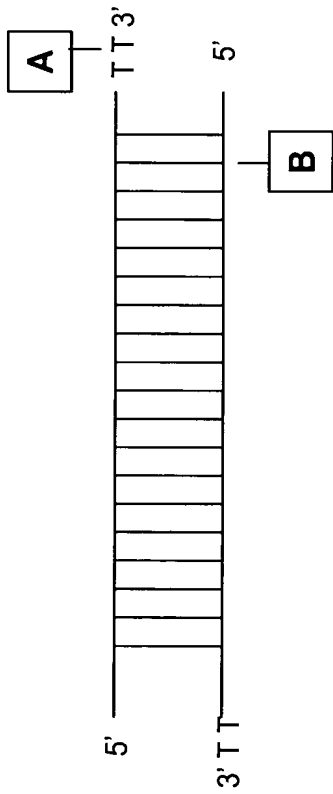


Fig. 1D

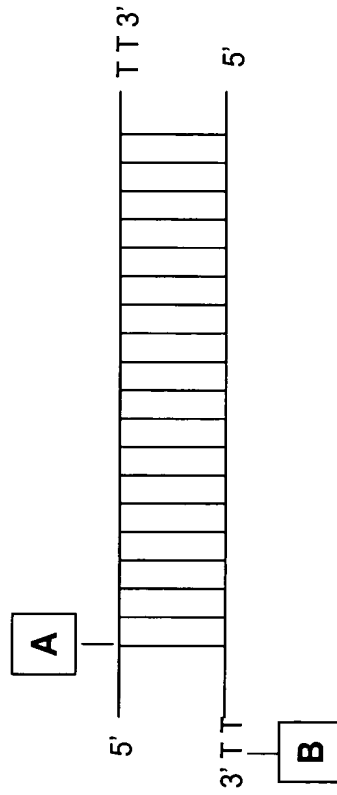


Fig. 1E

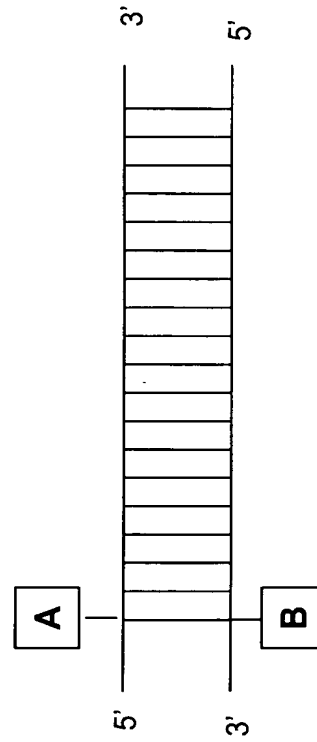


Fig. 1F

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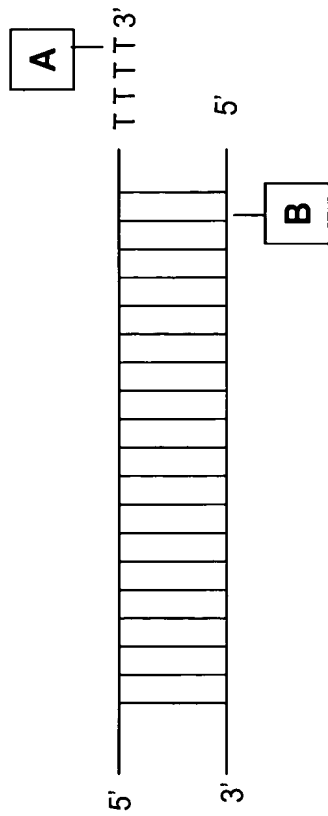


Fig. 1G

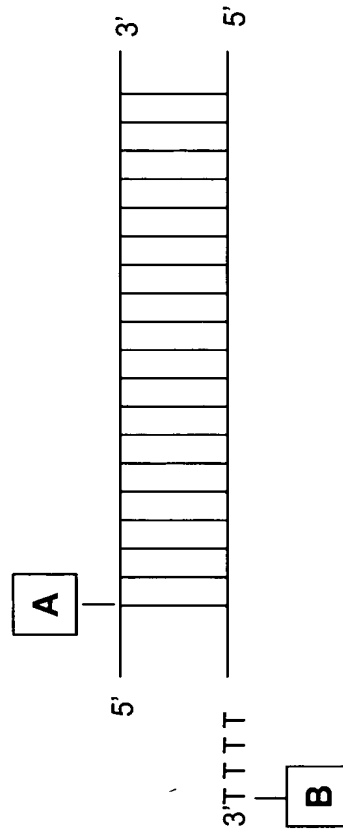


Fig. 1H

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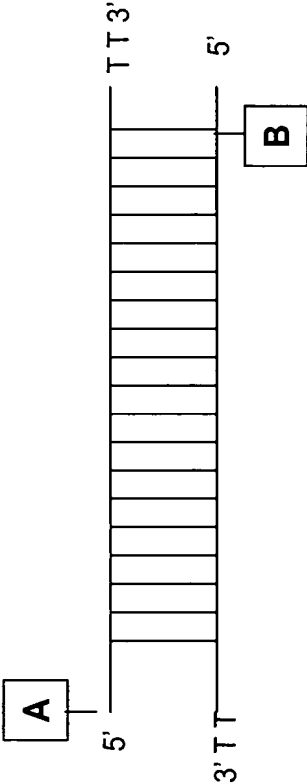


Fig. 1I

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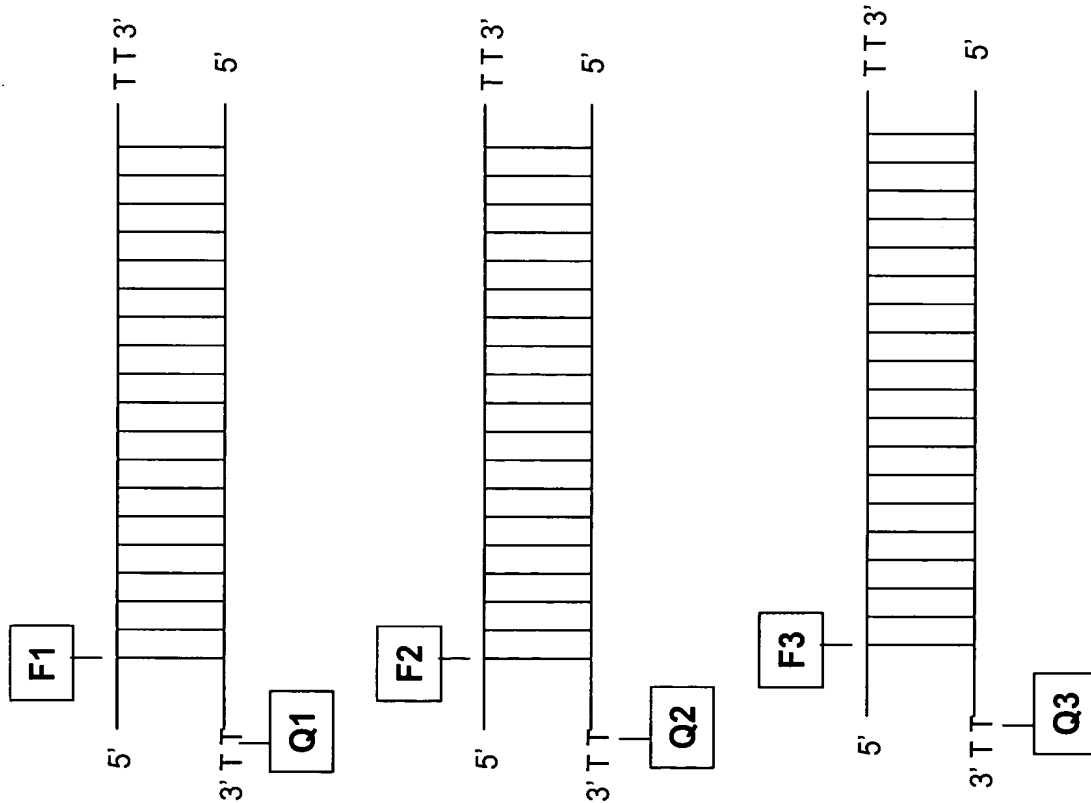


Fig. 2

The diagram shows three DNA fragments, F1, F2, and F3, each represented as a double-stranded DNA molecule. The top strand of each fragment is oriented 5' to 3' from left to right, and the bottom strand is oriented 3' to 5' from left to right. Restriction enzyme sites are indicated by boxes labeled with their abbreviations: F1 (NotI), F2 (PstI), APC (XbaI), F5 (NotI), and Q (PstI). The sites are located at the following positions relative to the DNA strands: F1 is on the top strand of F1; F2 is on the bottom strand of F1; APC is on the top strand of F2; F5 is on the top strand of F3; and Q is on the bottom strand of F3.

Fig. 3

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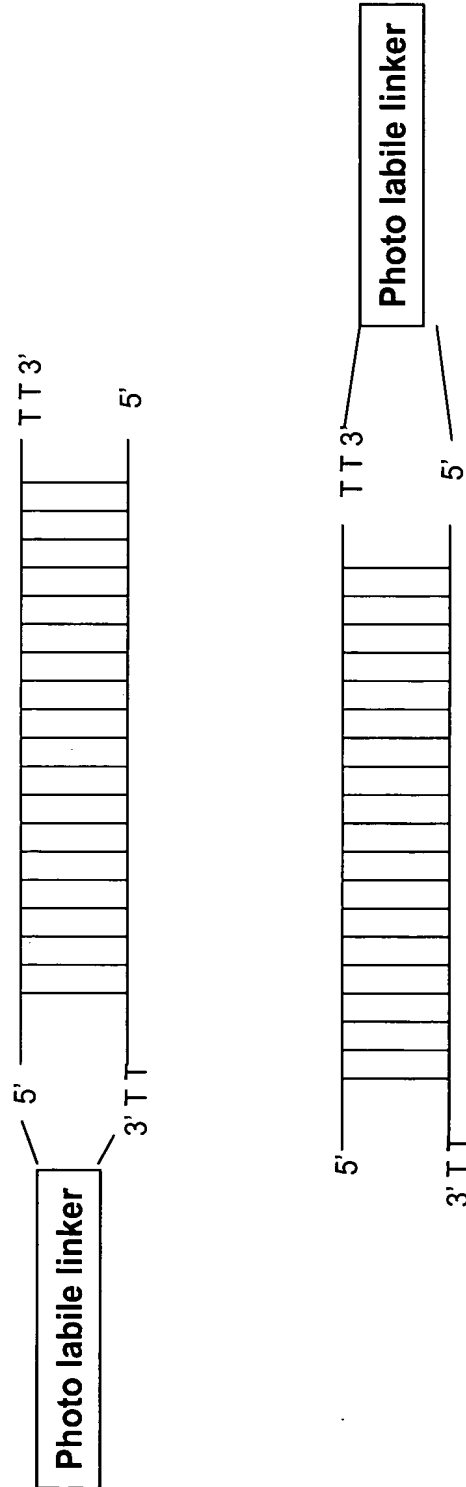


Fig. 4

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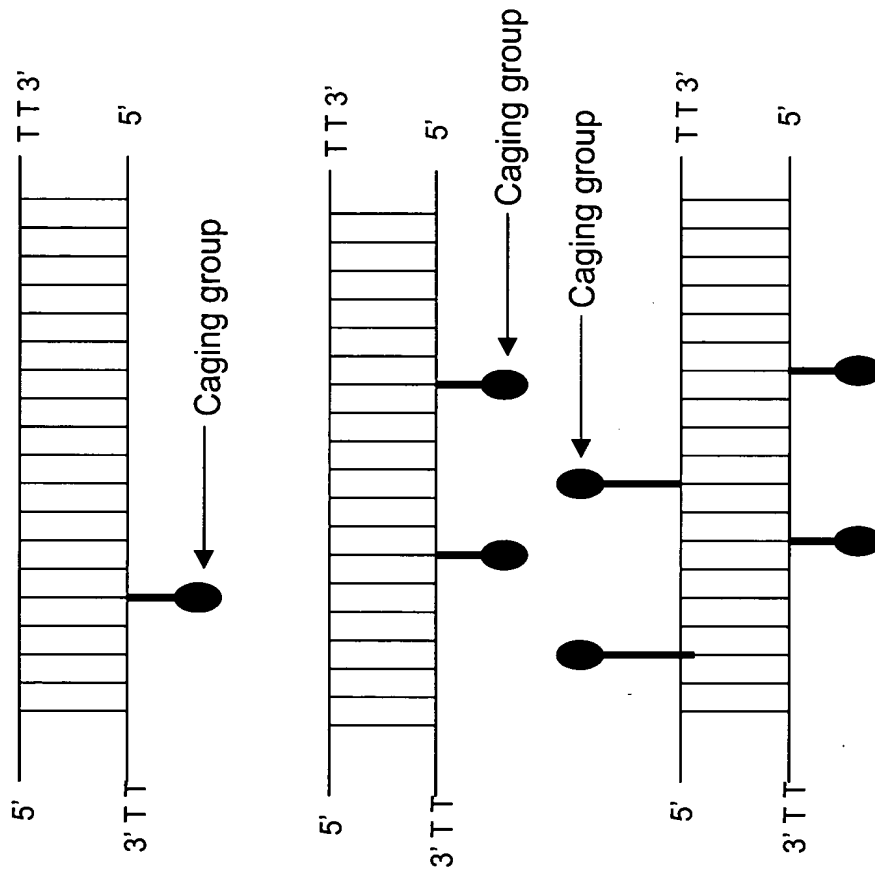


Fig. 5



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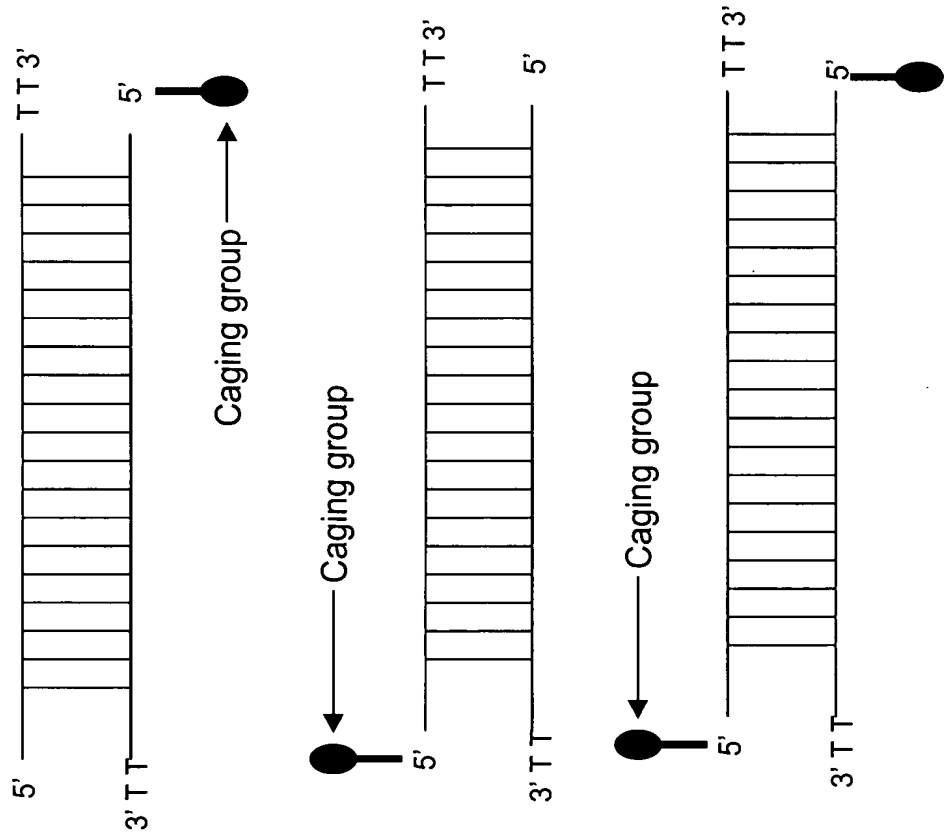


Fig. 6

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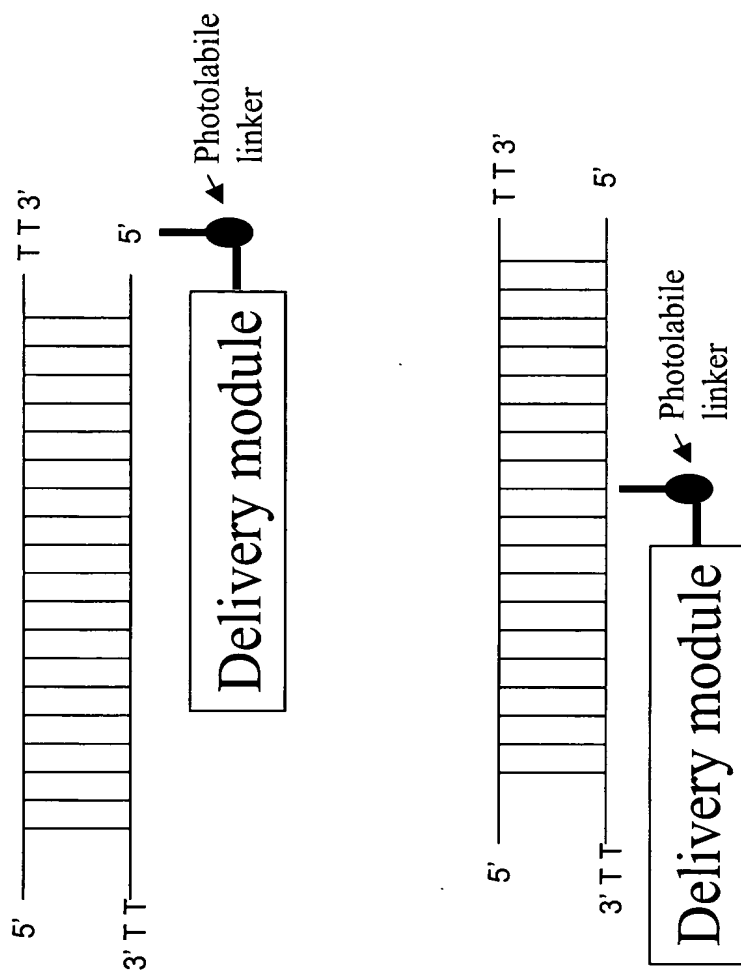


Fig. 7

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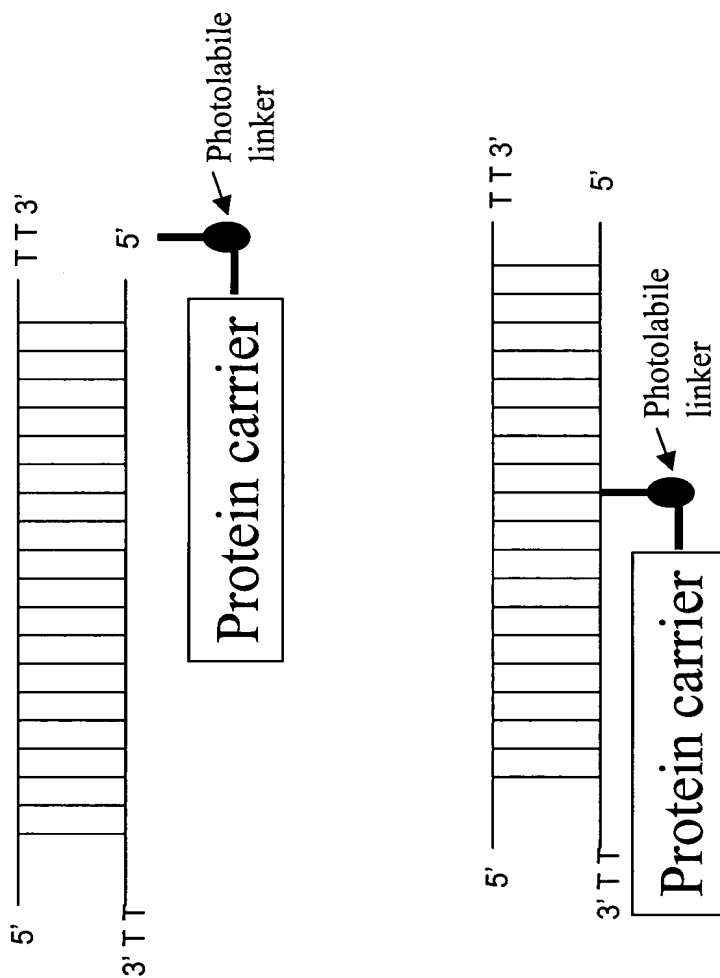


Fig. 8

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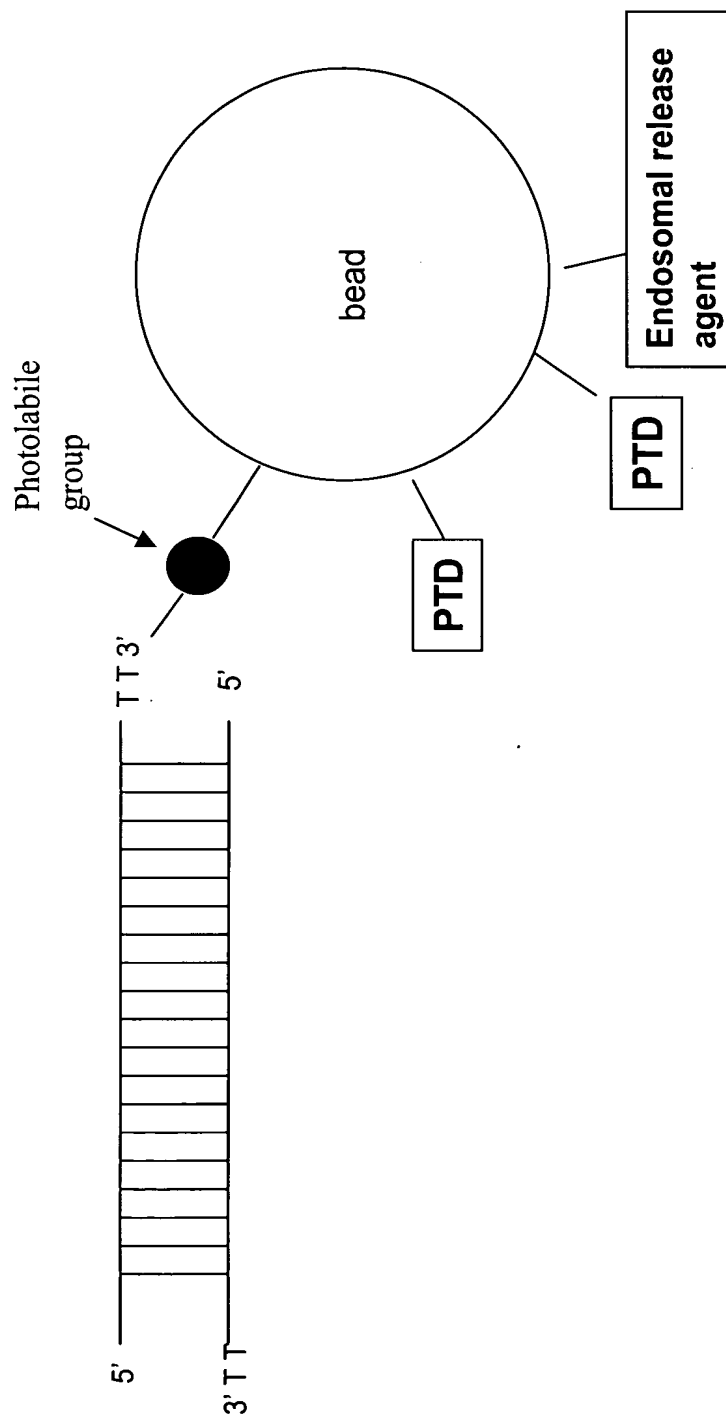


Fig. 9

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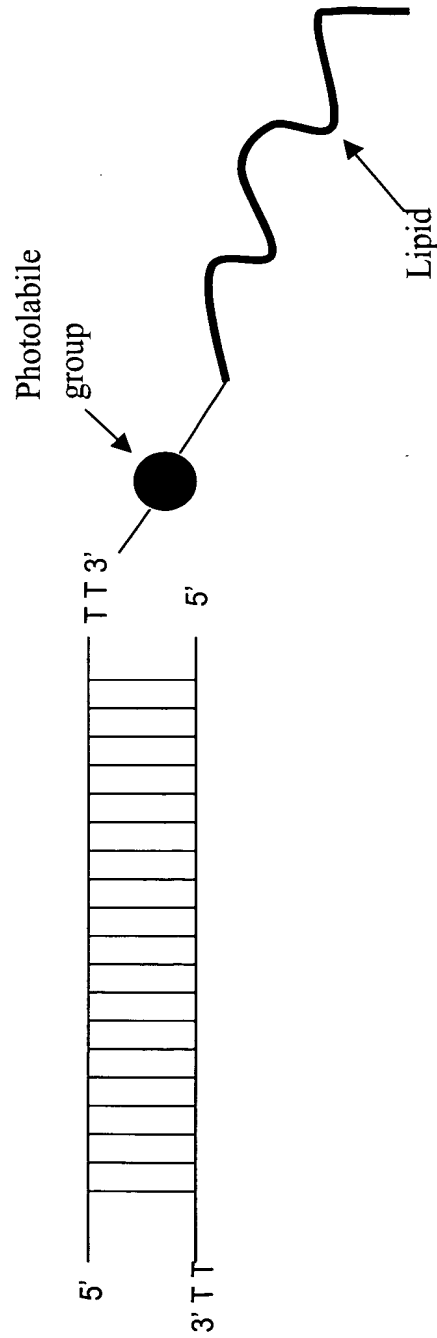


Fig. 10

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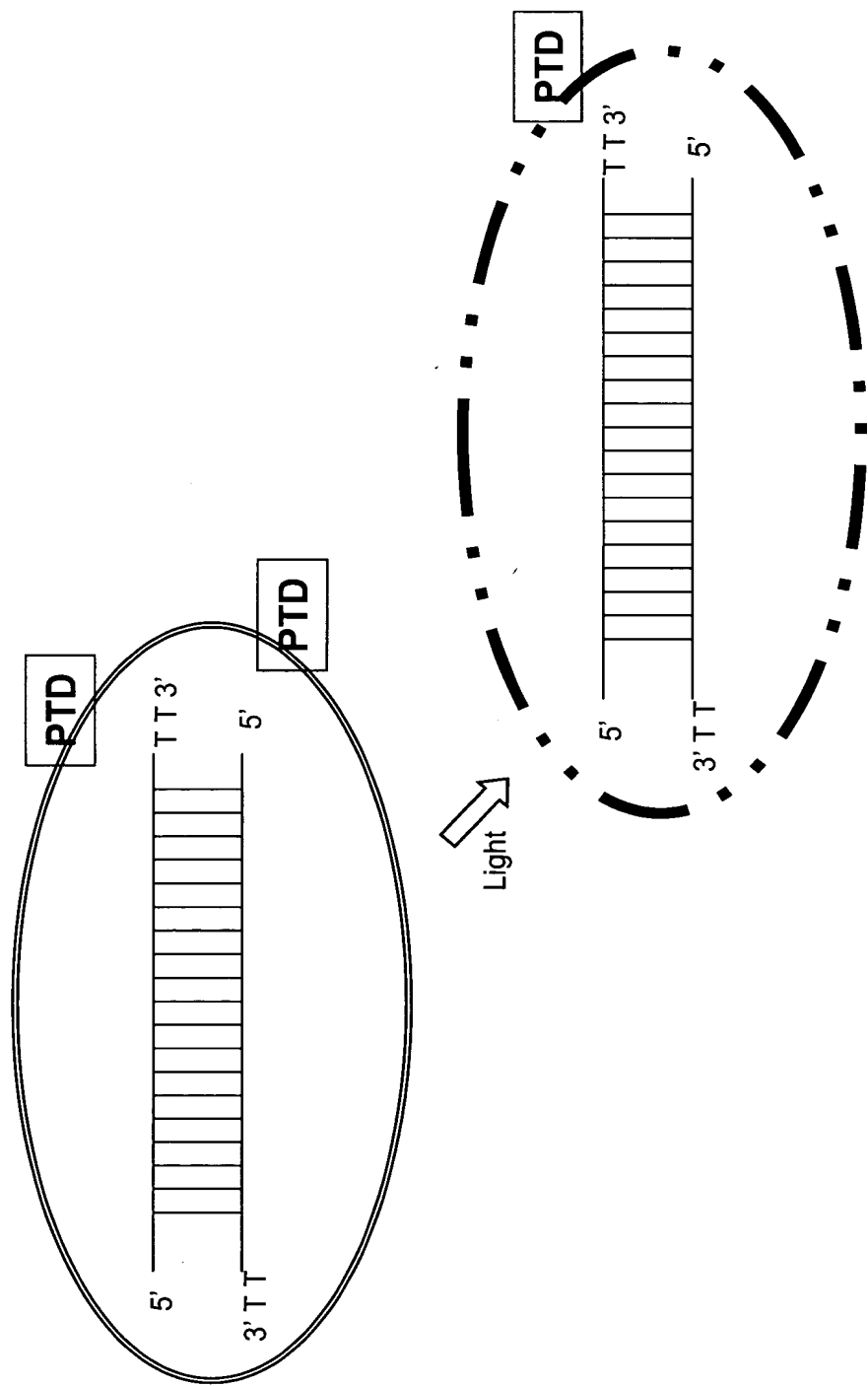


Fig. 11

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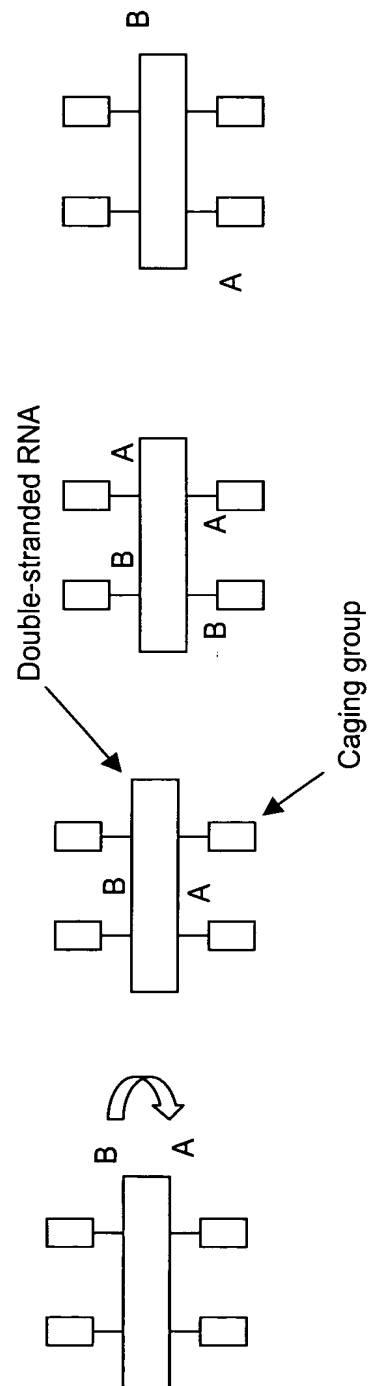


Fig. 12

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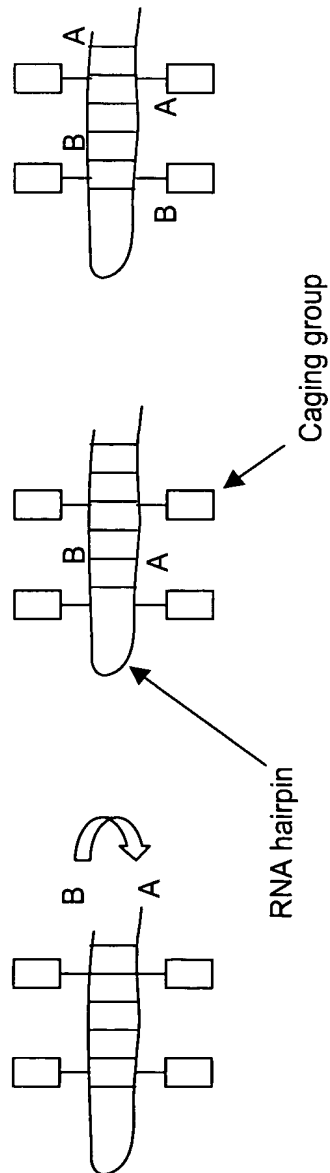


Fig. 13



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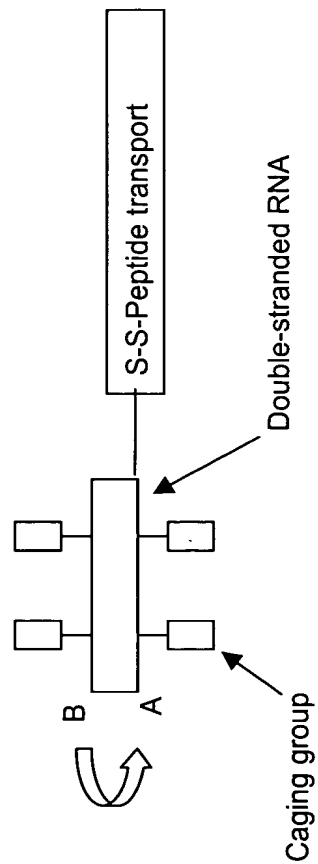
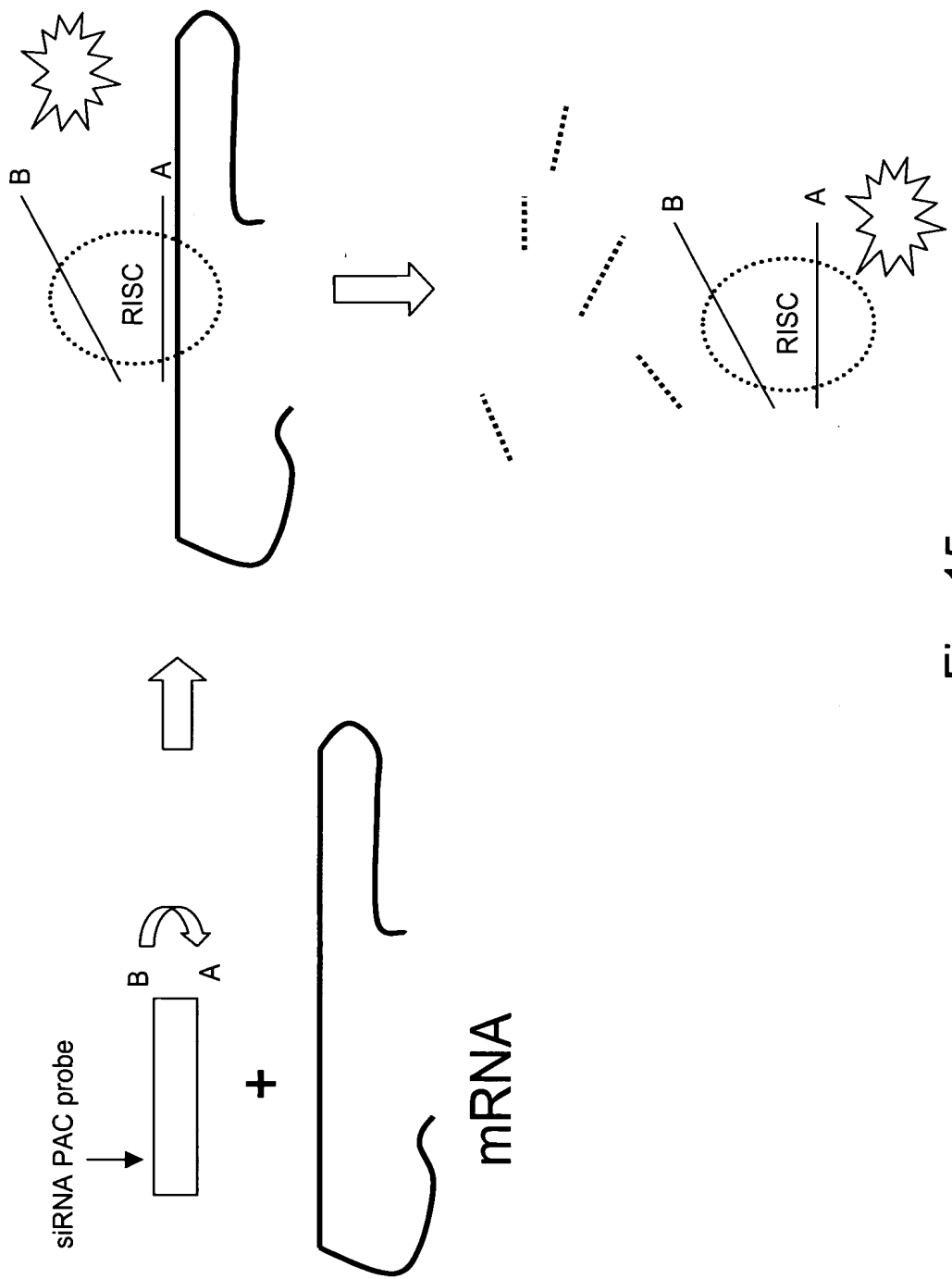


Fig. 14

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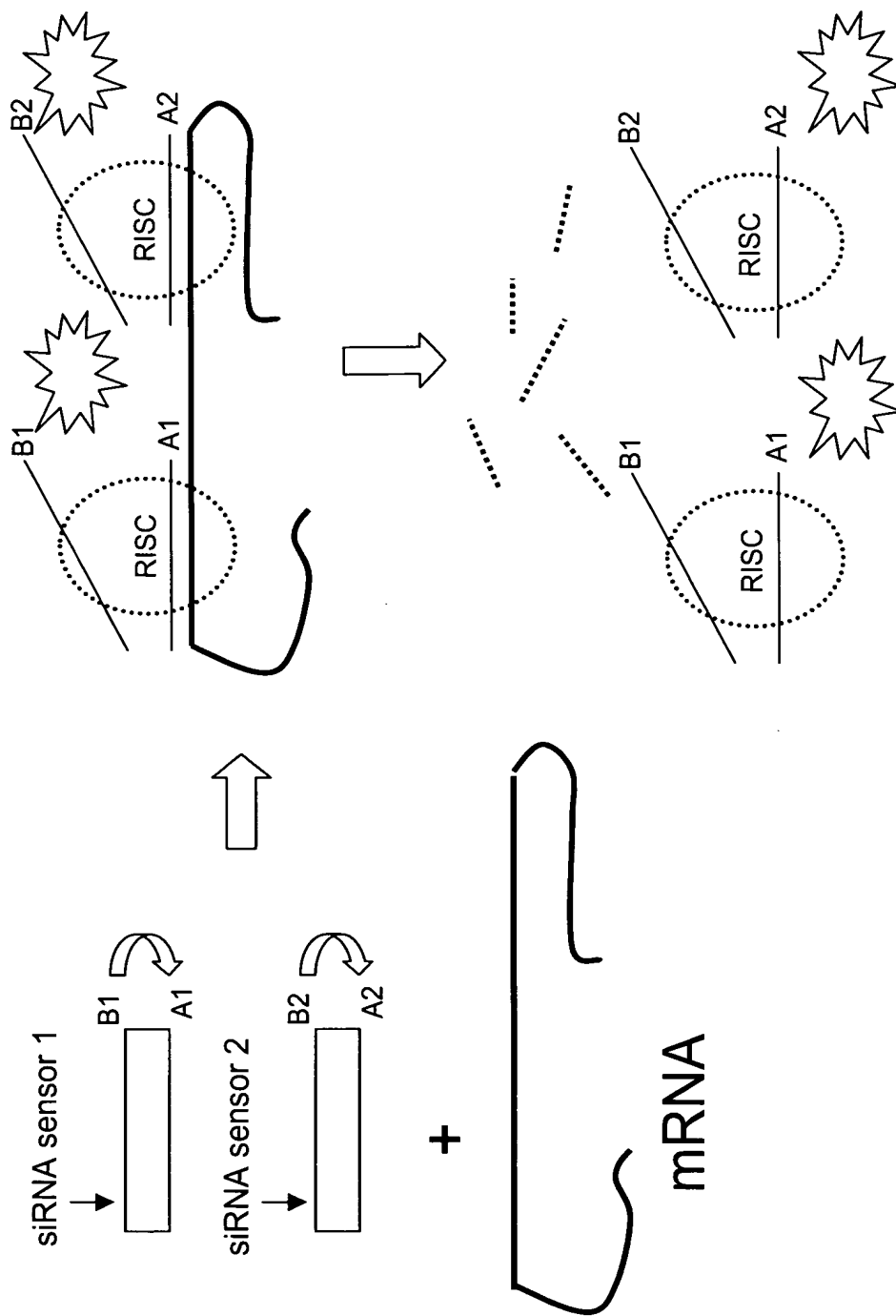
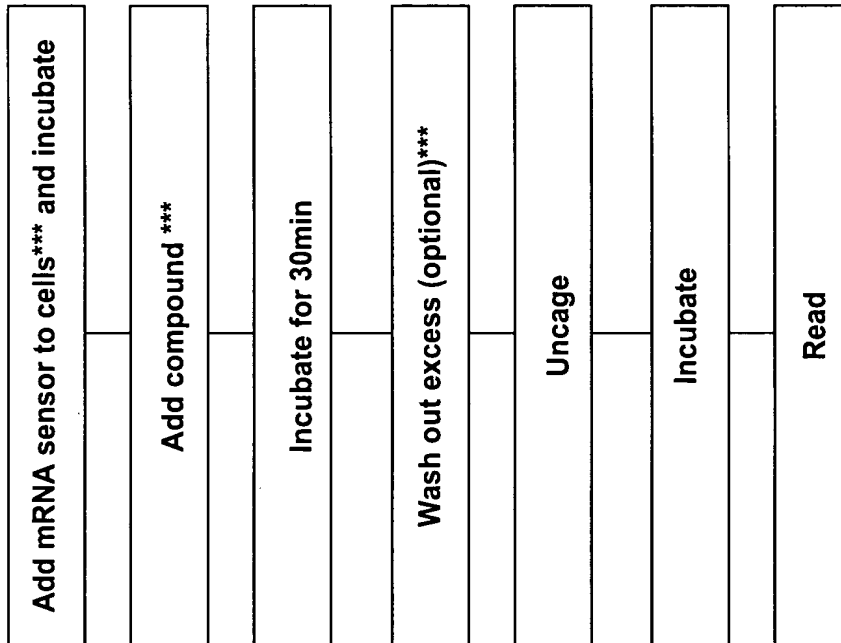


Fig. 16

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\*\*\* = fluid handling used

Fig. 17

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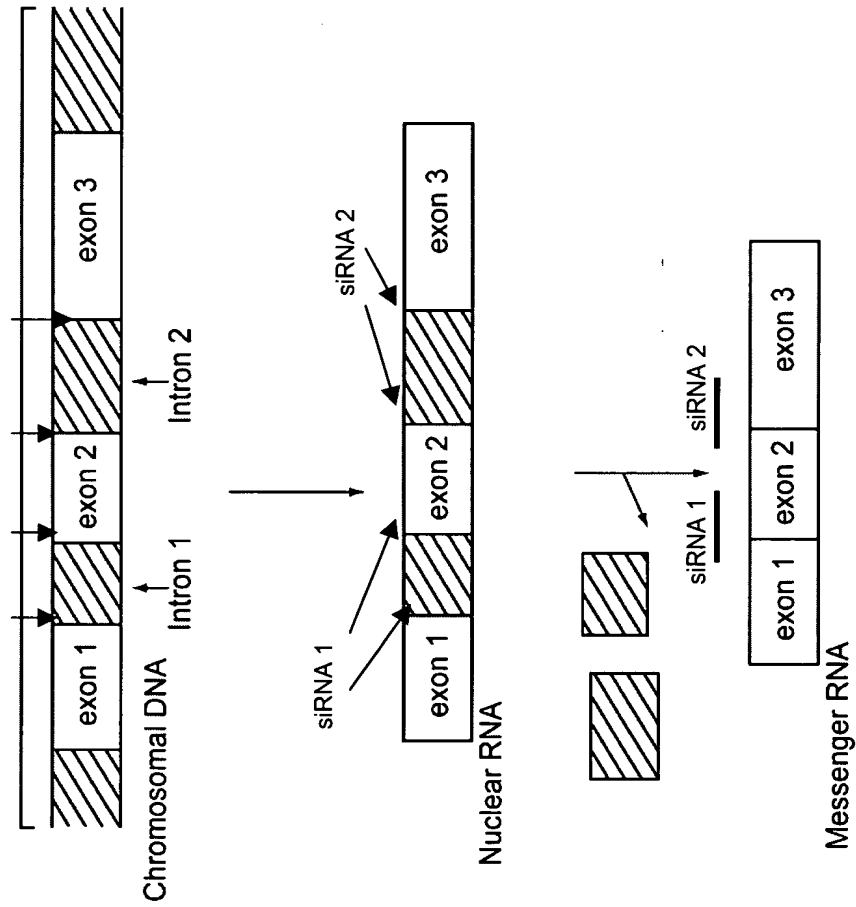


Fig. 18

Fig. 19

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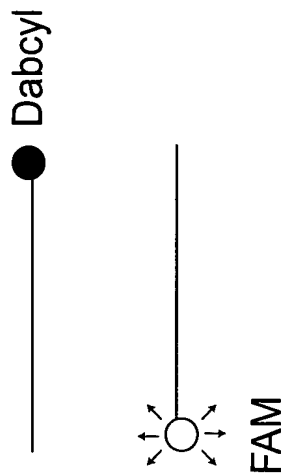


Fig. 20B

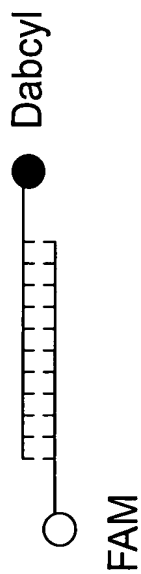


Fig. 20A

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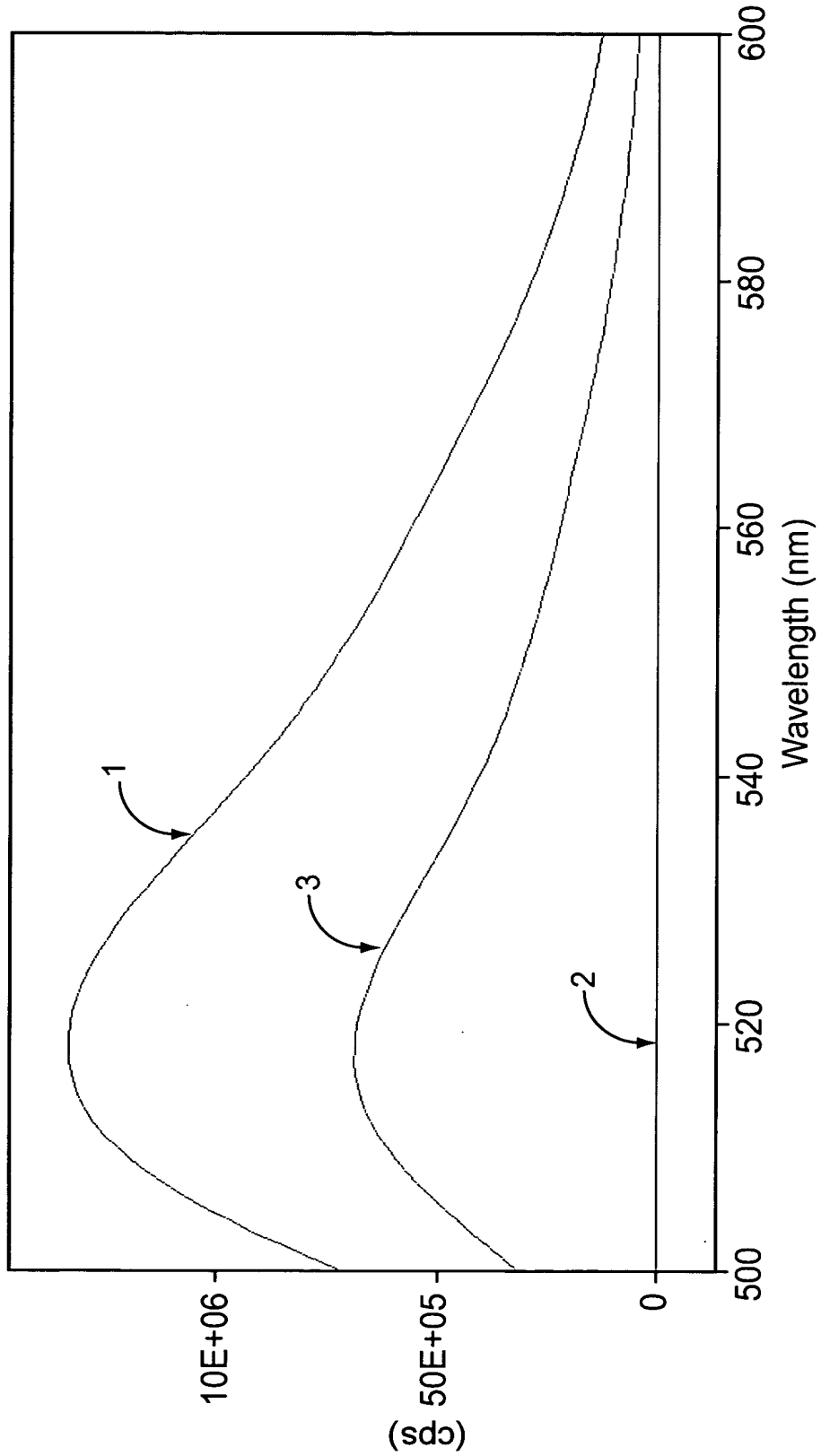


Fig. 20C



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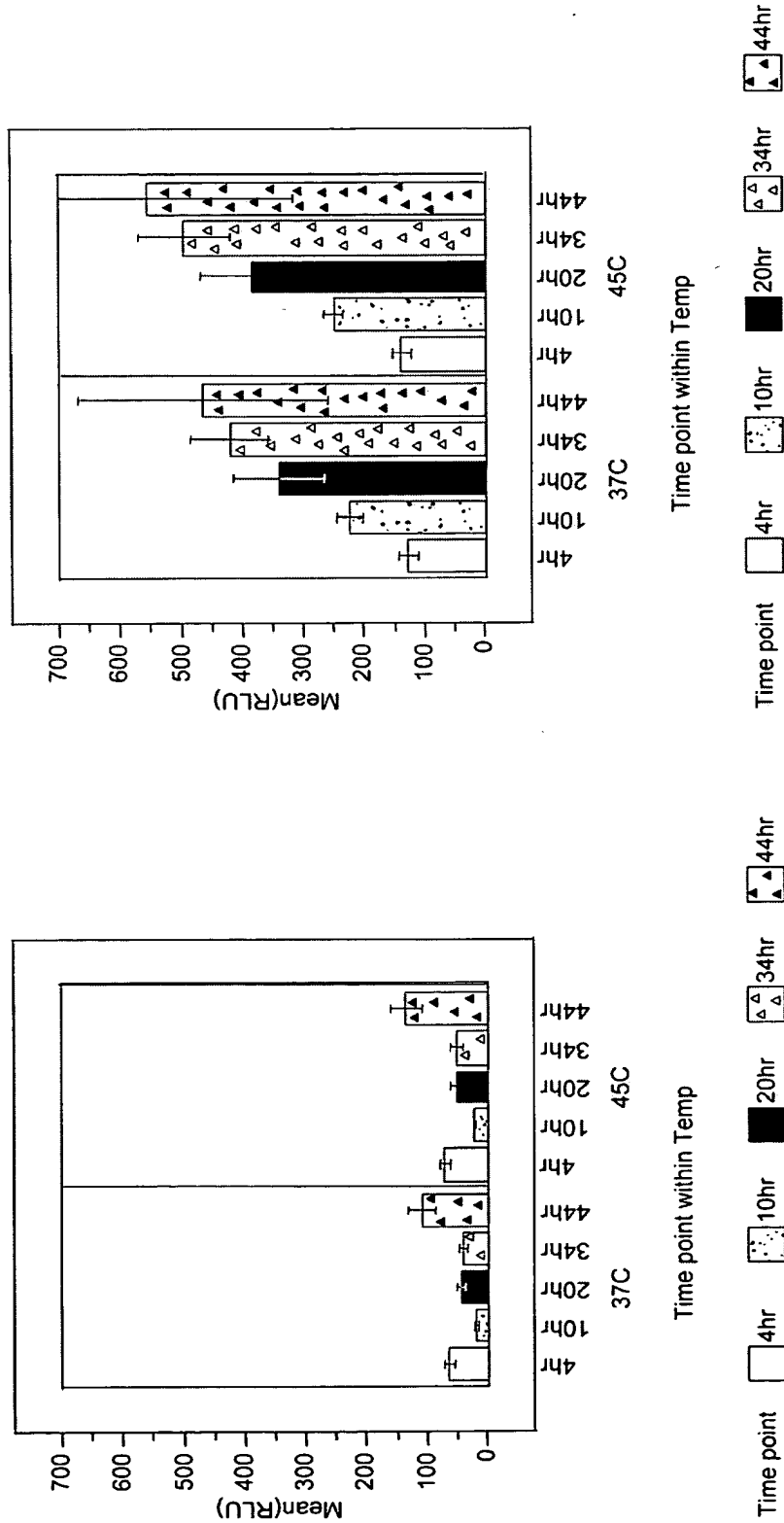


Fig. 21A

Fig. 21B

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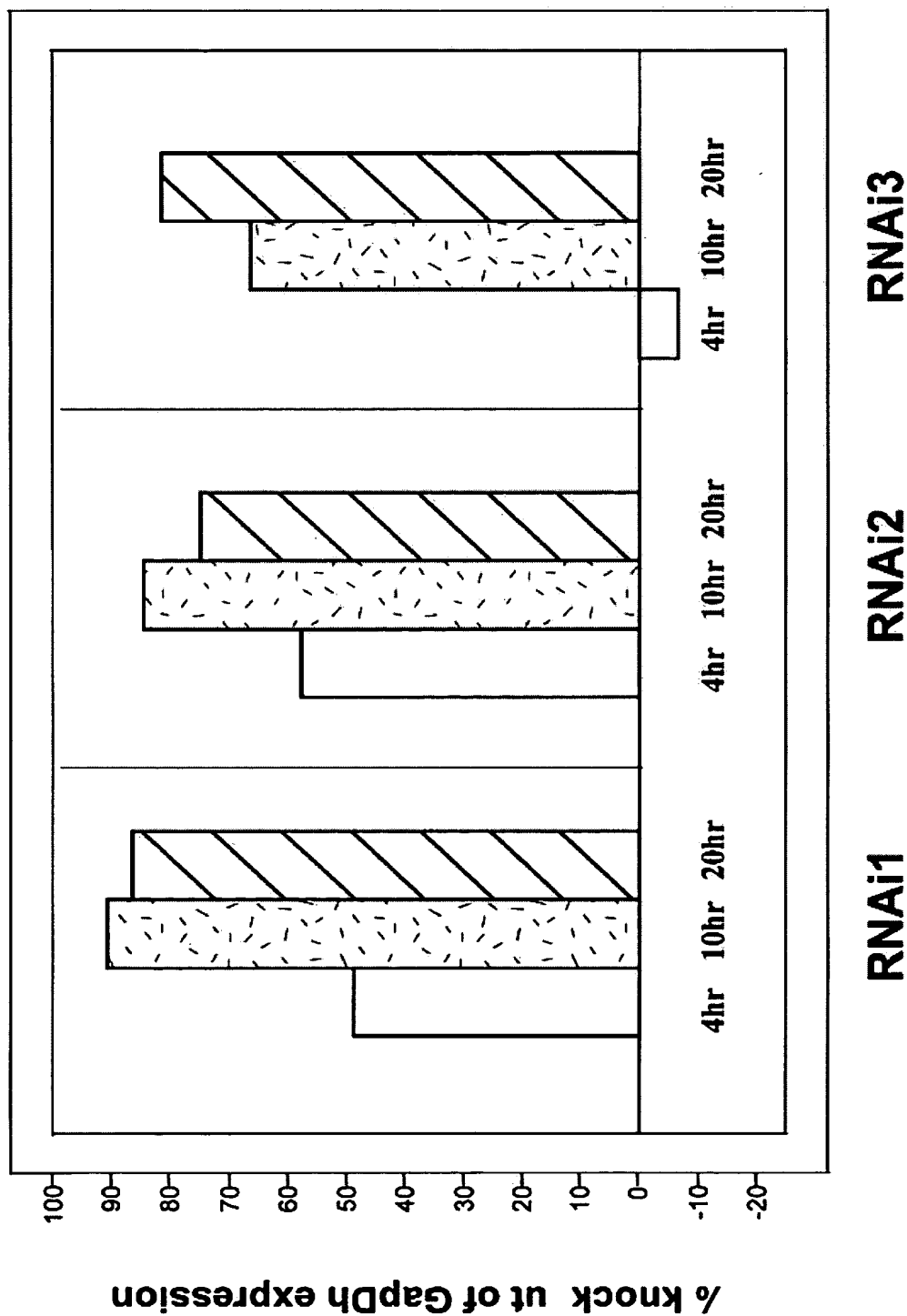


Fig. 22

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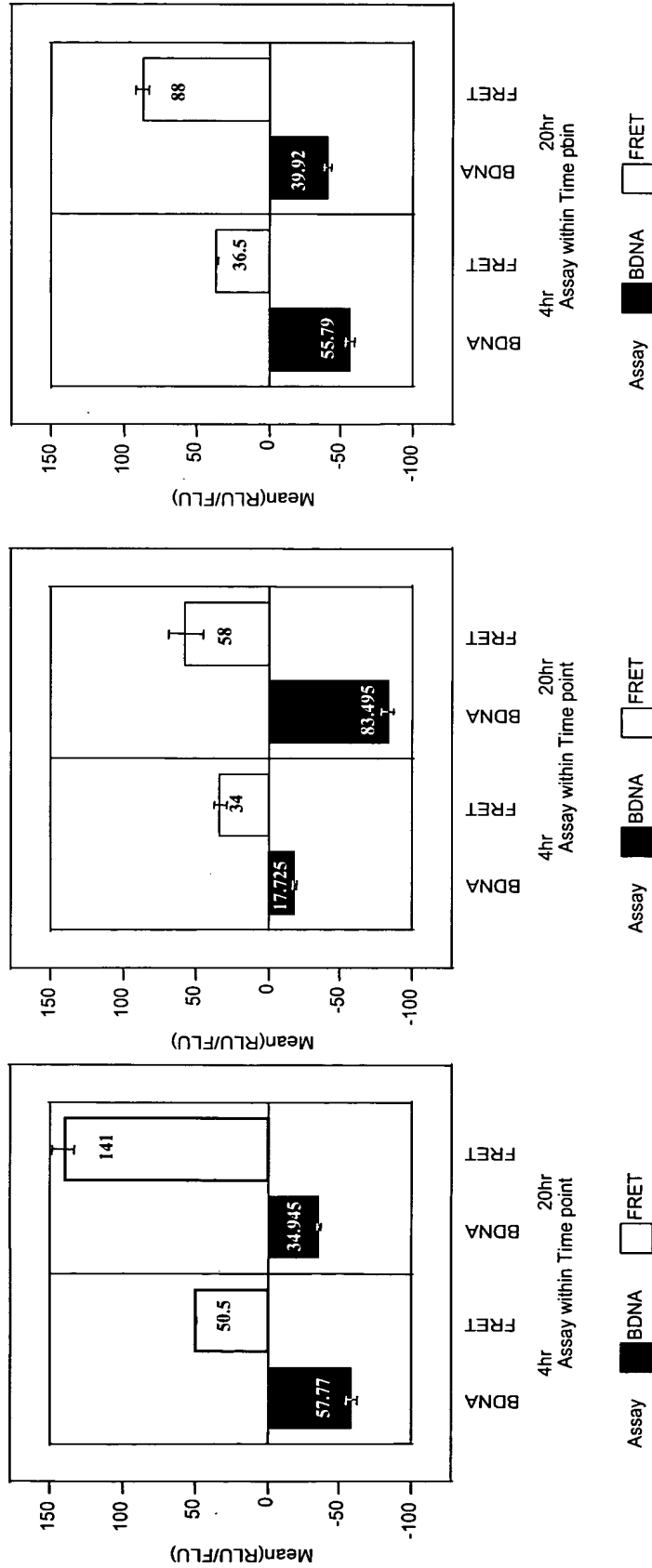


Fig. 23A

Fig. 23B

Fig. 23C

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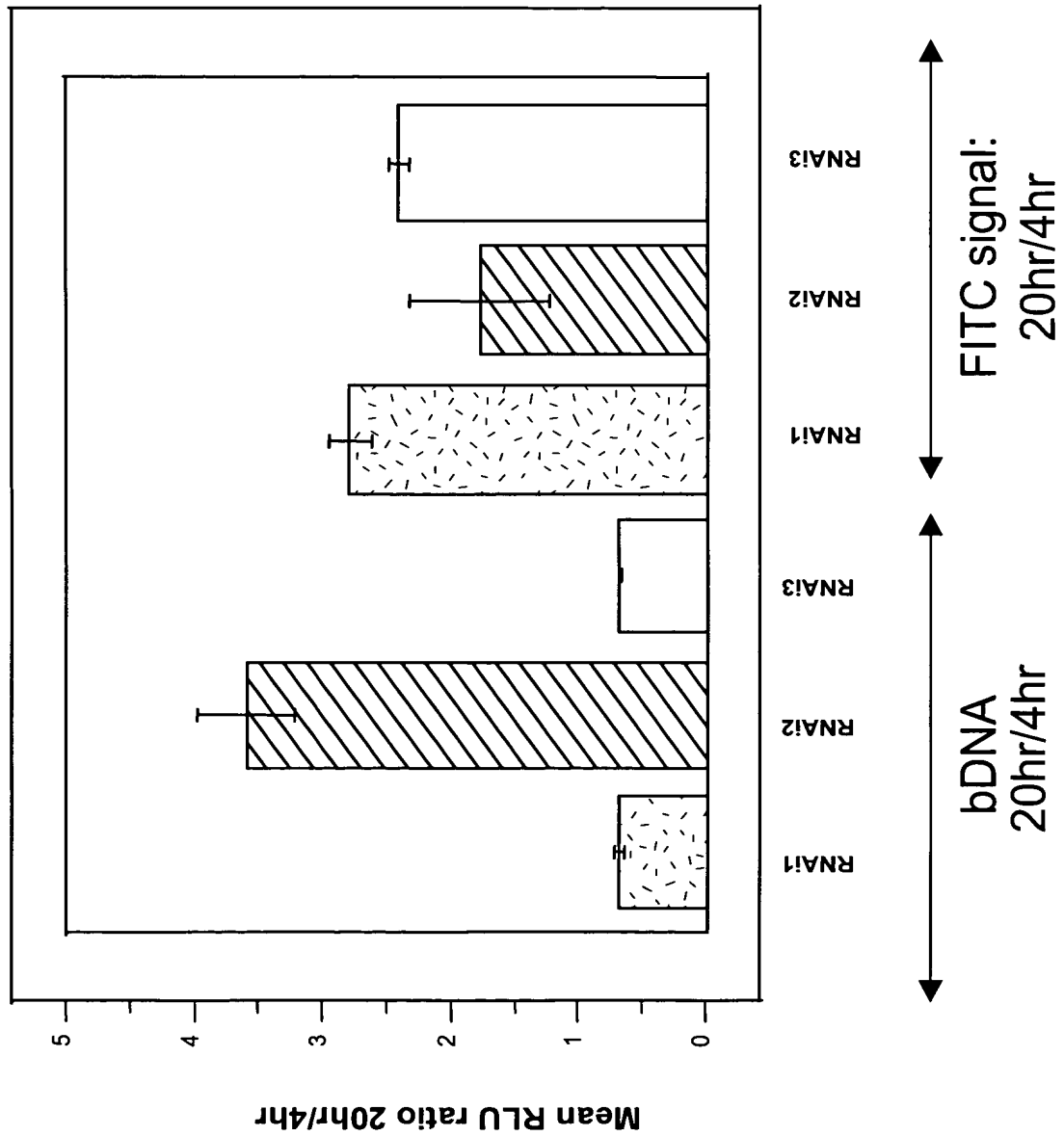


Fig. 24

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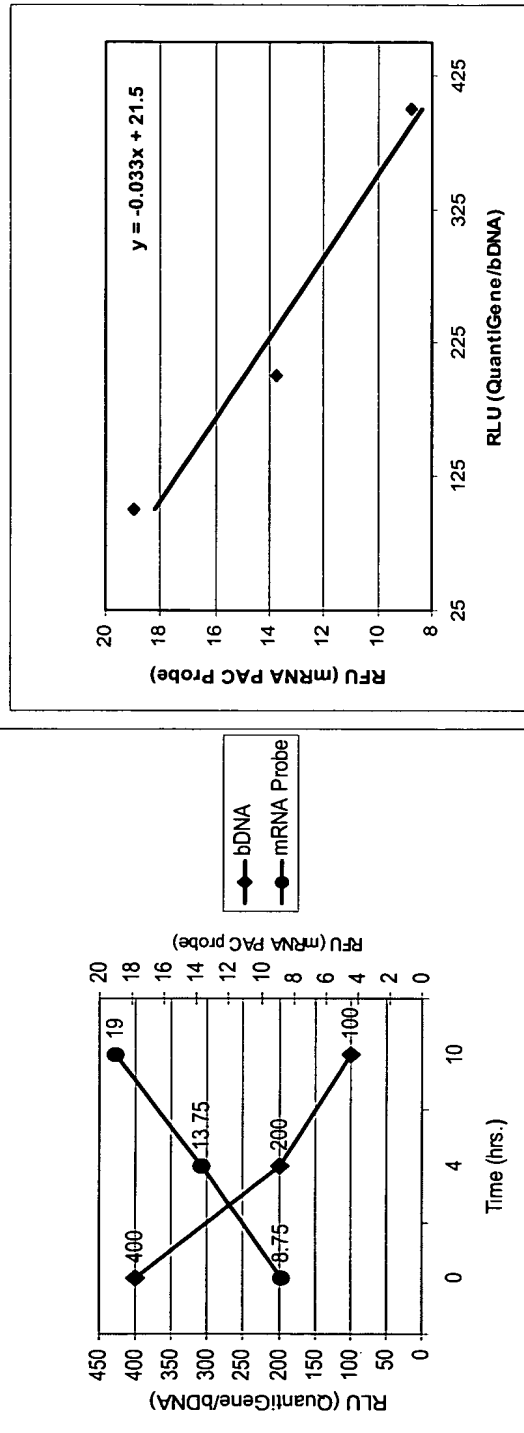


Fig. 25B

Fig. 25A

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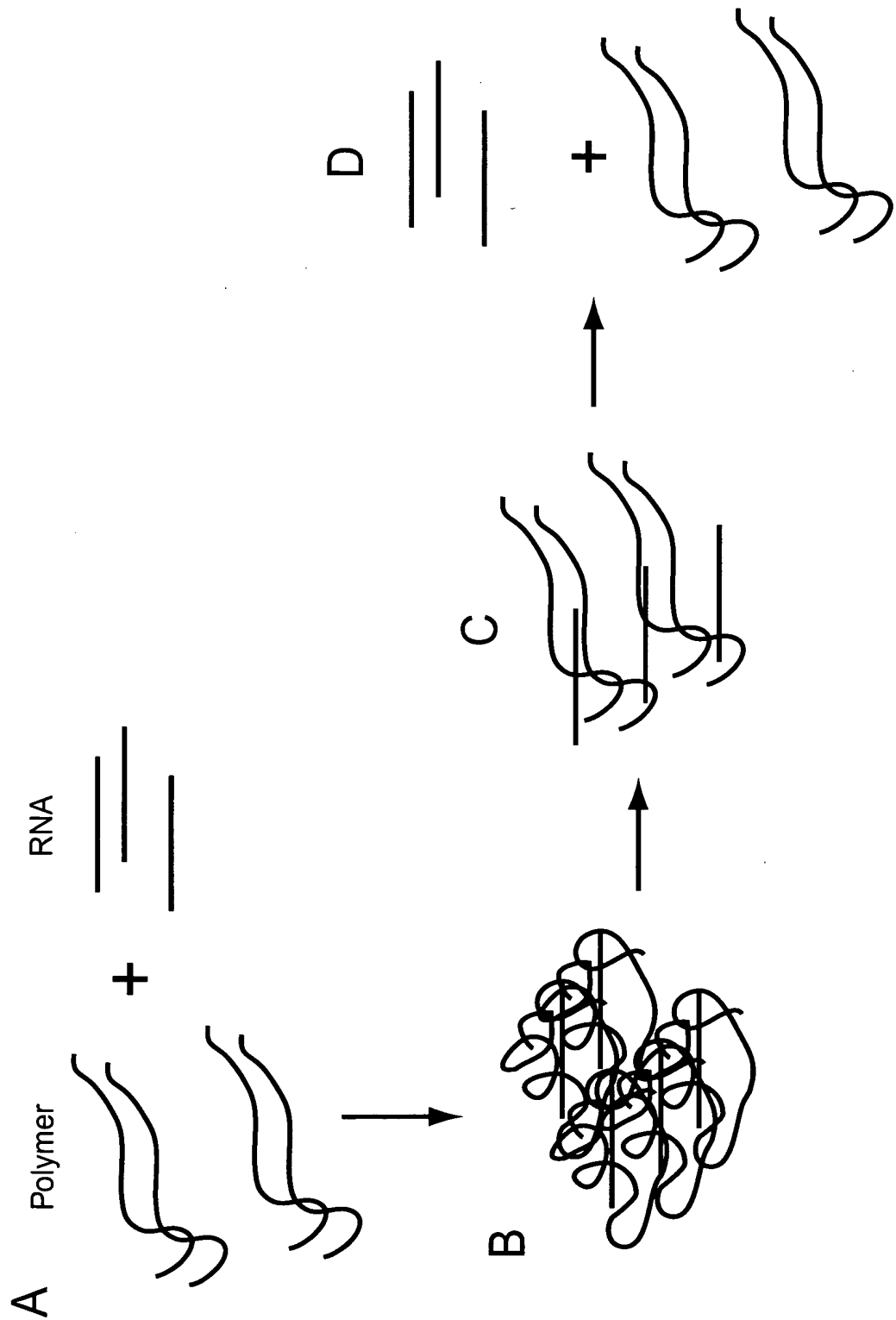


Fig. 26

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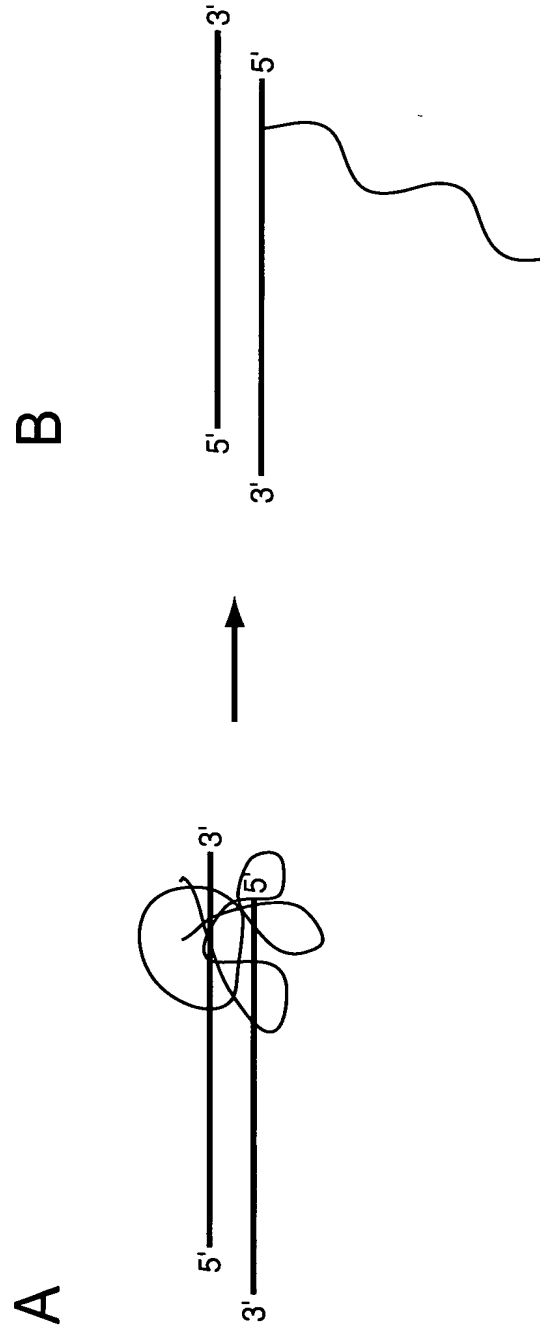


Fig. 27

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Fig. 28A

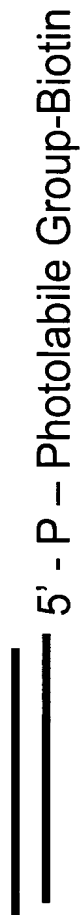
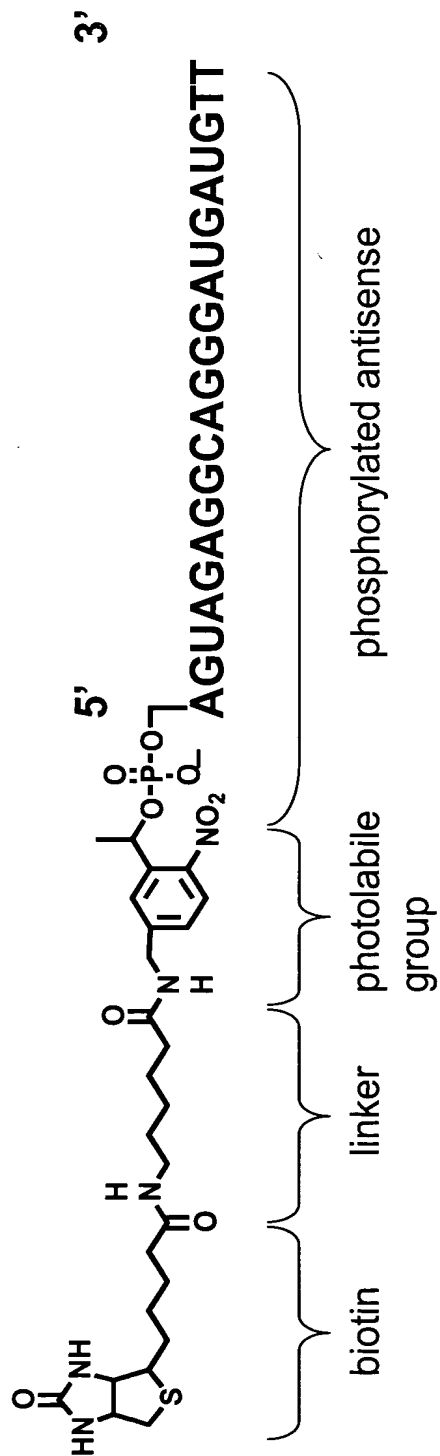


Fig. 28B





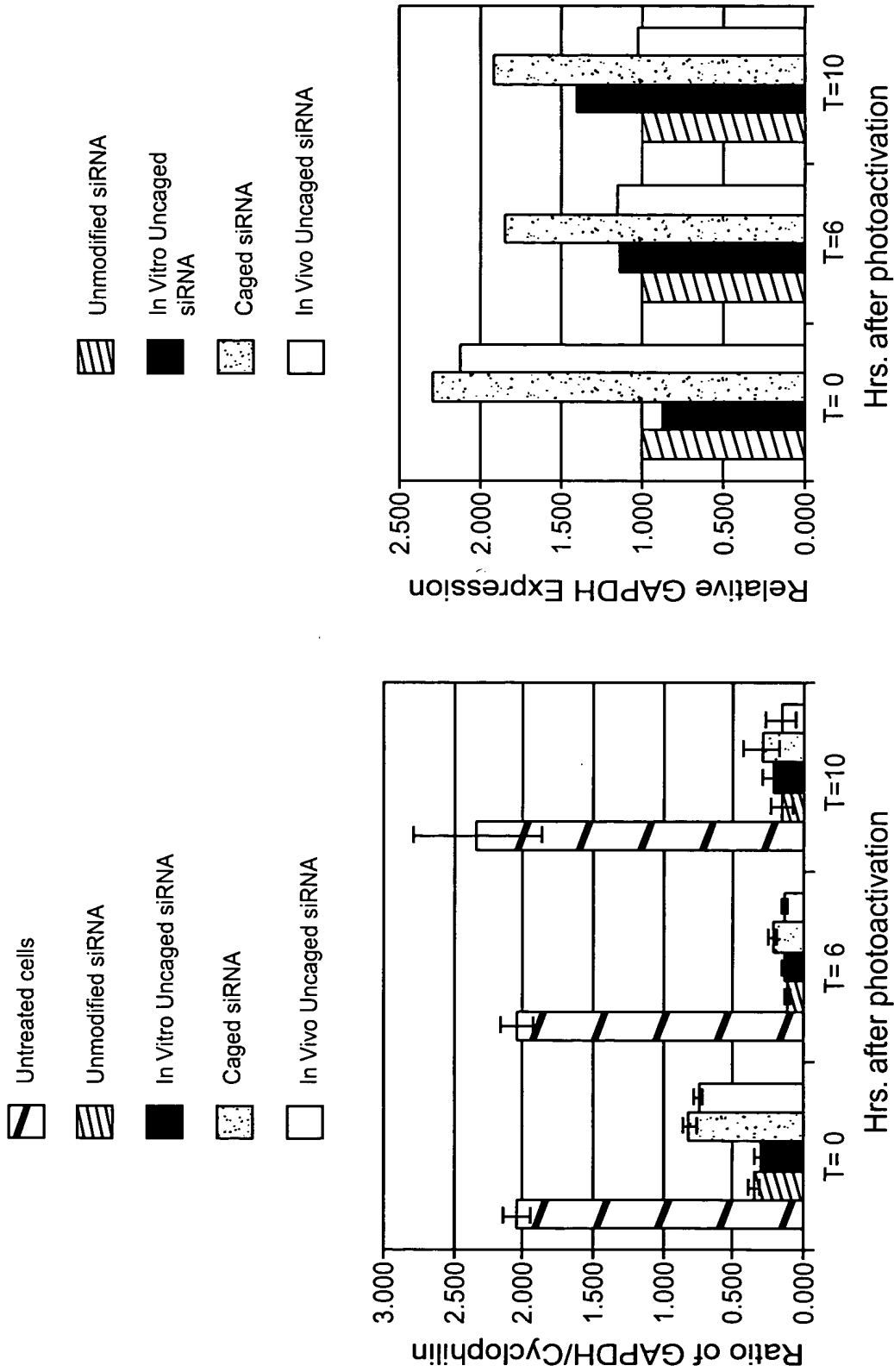


Fig. 29A

Fig. 29B

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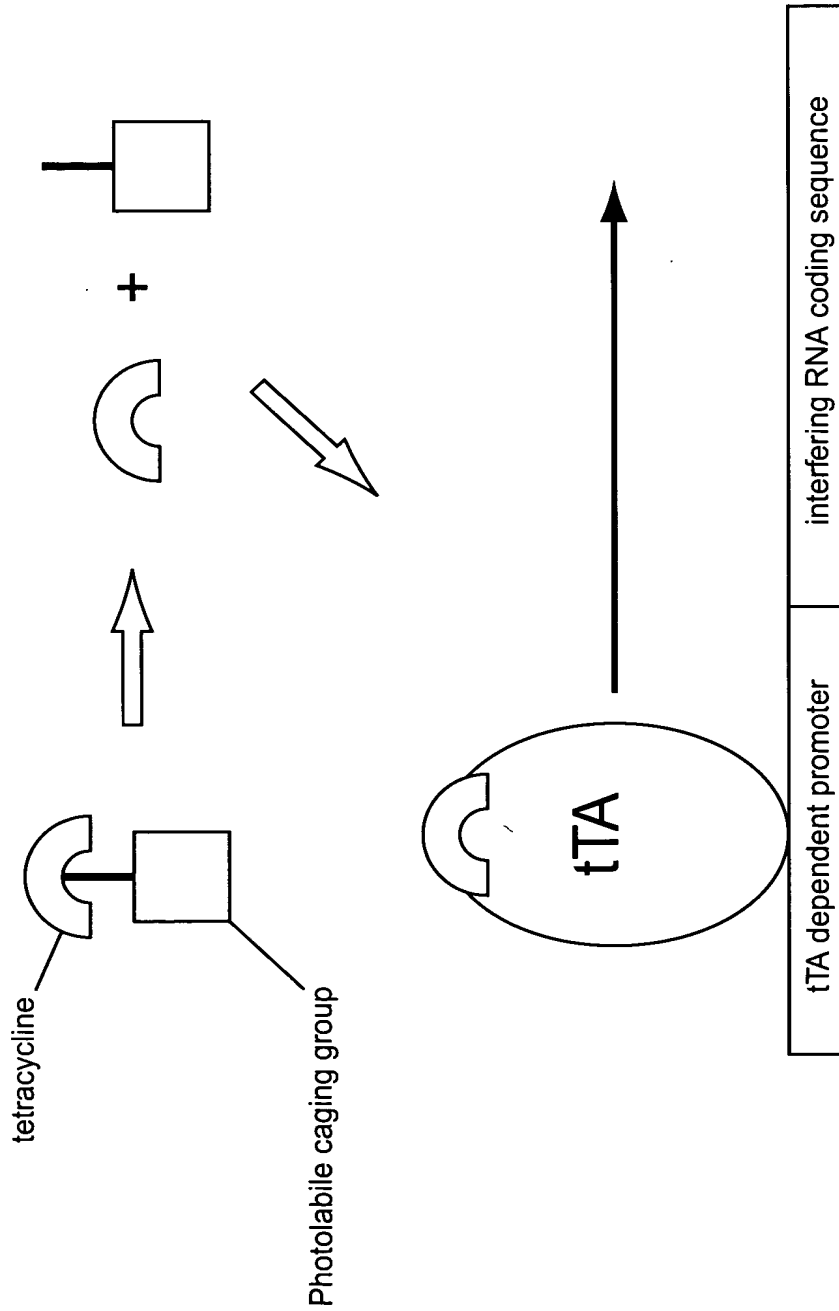


Fig. 30

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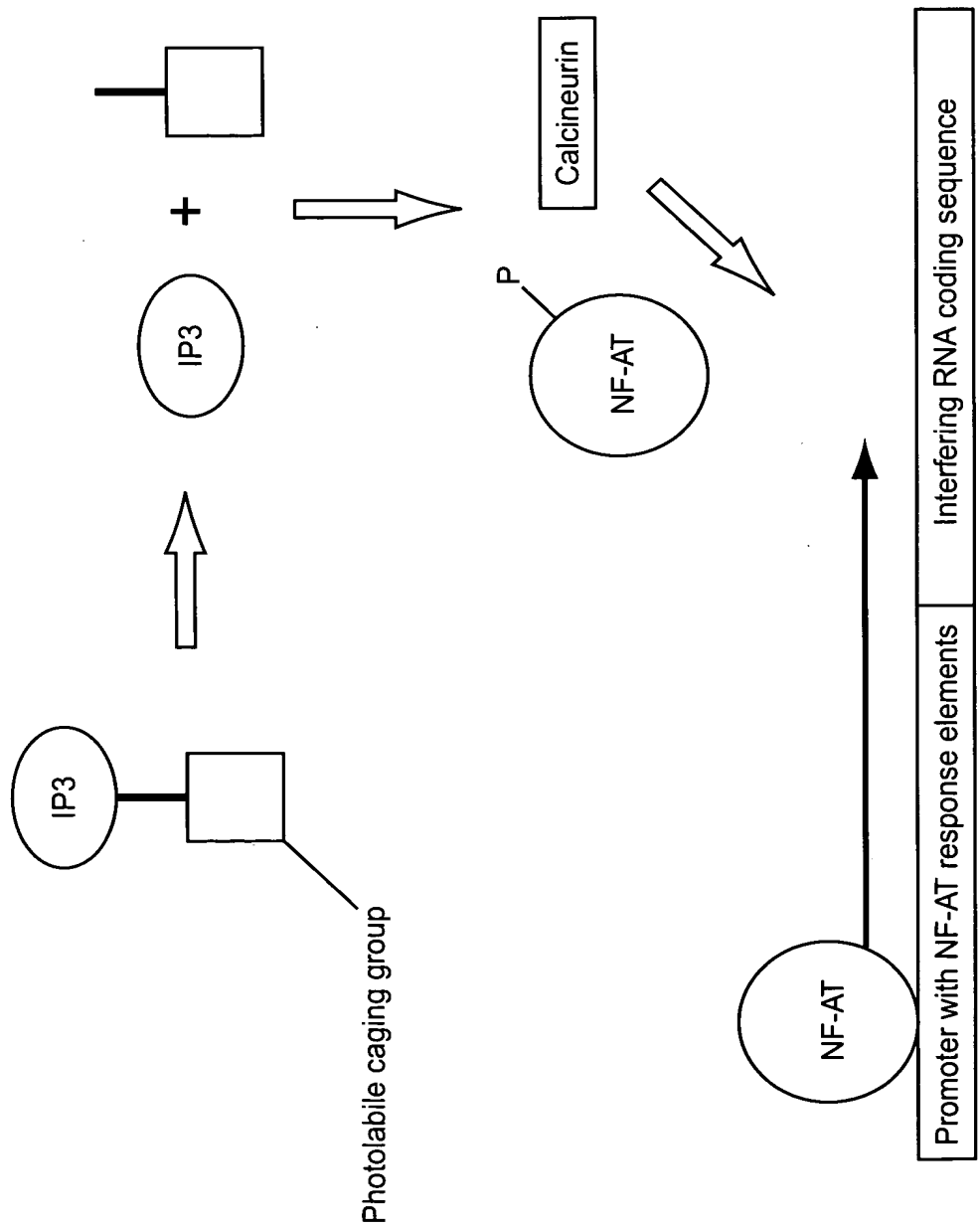


Fig. 31